

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331525-940

Luminaire Tested: **S122DIW-S675D435U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331525-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S675D435U940-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 435 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4158.0 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

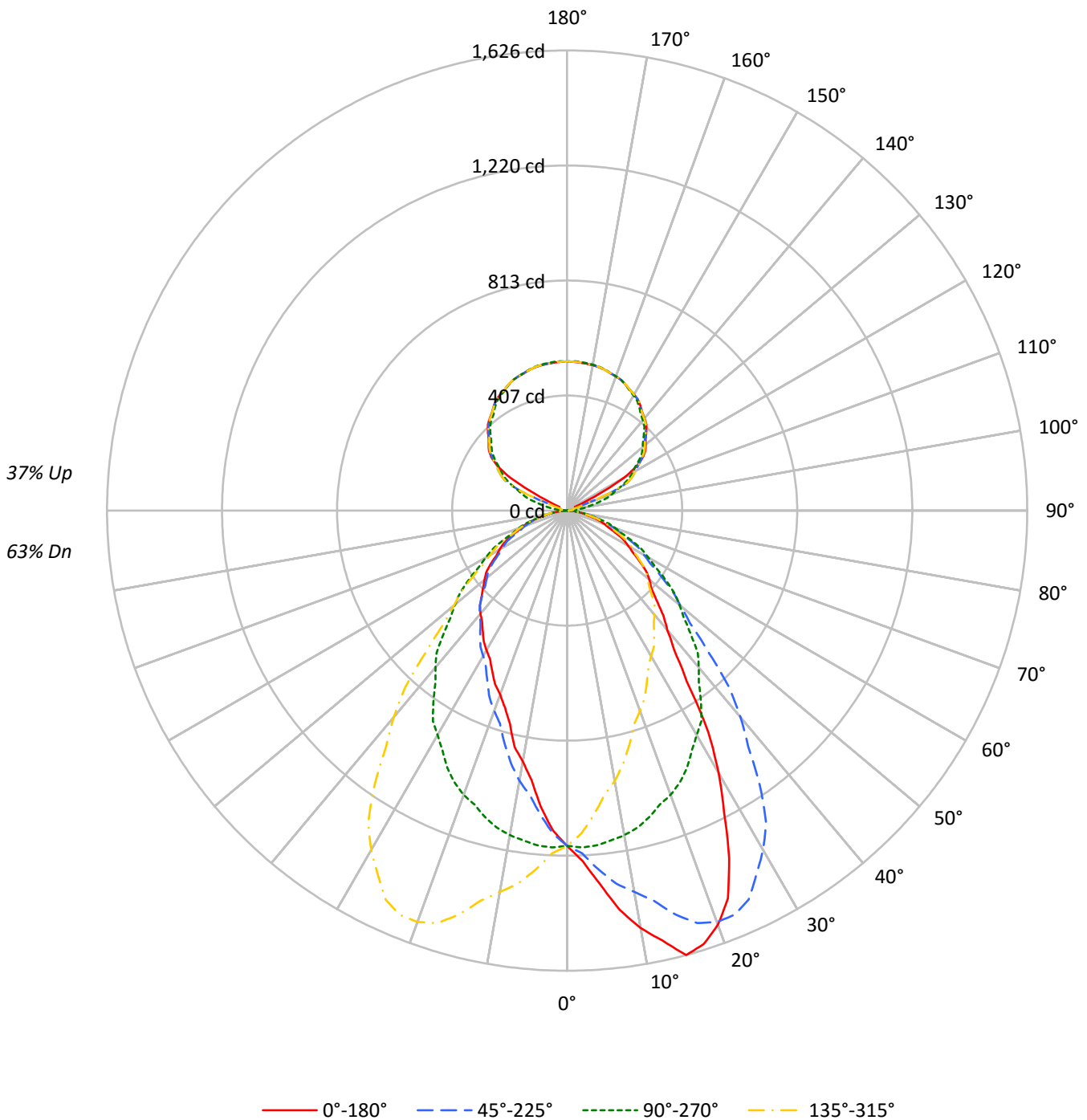
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	101	97	93	90	95	91	88	85	80	78	76	70	69	67	61	60	59	54
2	93	86	80	75	87	81	75	71	71	67	64	62	59	57	54	52	50	46
3	85	76	69	63	80	71	65	60	63	58	54	56	52	49	49	46	43	40
4	78	68	60	54	73	64	57	51	57	51	47	50	46	42	44	41	38	35
5	72	61	53	47	67	57	50	45	51	45	41	45	41	37	40	36	34	31
6	67	55	47	41	62	52	45	39	46	40	36	41	37	33	37	33	30	27
7	62	50	42	36	58	47	40	35	42	36	32	38	33	29	34	30	27	24
8	58	45	38	32	54	43	36	31	39	33	29	35	30	27	31	27	24	22
9	54	42	34	29	50	40	33	28	36	30	26	32	27	24	29	25	22	20
10	50	38	31	26	47	36	30	25	33	27	24	30	25	22	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19125	19125	19125	19125
5°	21441	19248	17057	19248
10°	24568	19090	14762	19090
15°	27178	18740	13041	18740
20°	26764	18364	11888	18364
25°	24134	17865	11158	17865
30°	19943	17066	10625	17066
35°	14534	16232	10247	16232
40°	11609	15247	10037	15247
45°	10145	14104	9750	14104
50°	9535	12999	9560	12999
55°	8791	11879	9303	11879
60°	8054	10685	8909	10685
65°	7339	9616	8520	9616
70°	6661	8573	7950	8573
75°	5908	7411	7043	7411
80°	5086	6137	5672	6137
85°	4557	4557	3372	4557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	2.7
10°-20°	327.9	7.9
20°-30°	475.9	11.4
30°-40°	502.2	12.1
40°-50°	444.7	10.7
50°-60°	354.9	8.5
60°-70°	241.2	5.8
70°-80°	123.7	3.0
80°-90°	31.1	0.7
90°-100°	17.6	0.4
100°-110°	64.4	1.5
110°-120°	172.2	4.1
120°-130°	284.3	6.8
130°-140°	302.4	7.3
140°-150°	281.0	6.8
150°-160°	225.9	5.4
160°-170°	145.6	3.5
170°-180°	50.1	1.2
0°-30°	916.7	22.0
0°-40°	1418.9	34.1
0°-60°	2218.4	53.4
0°-90°	2614.4	62.9
90°-120°	254.2	6.1
90°-150°	1121.9	27.0
90°-180°	1544.0	37.1
0°-180°	4158.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1184	1184	1184	1184	1184	
5°	1323	1188	1052	1188	1323	132
15°	1626	1121	780	1121	1626	449
25°	1355	1003	626	1003	1355	612
35°	737	824	520	824	737	480
45°	444	618	427	618	444	349
55°	312	422	330	422	312	280
65°	192	252	223	252	192	191
75°	95	119	113	119	95	101
85°	25	25	18	25	25	27
90°	10	0	10	0	10	6
95°	16	25	16	25	16	15
105°	29	116	29	116	29	30
115°	31	219	31	219	31	78
125°	326	310	326	310	326	282
135°	396	383	396	383	396	305
145°	452	445	452	445	452	282
155°	490	490	490	490	490	226
165°	515	516	515	516	515	145
175°	525	528	525	528	525	50
180°	527	527	527	527	527	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1239.0	1239.4	1240.2	1234.3	1233.6	1233.6	1228.5	1224.1	1219.1	1212.1	1212.8
5°	1322.9	1327.8	1329.6	1324.2	1316.0	1315.1	1307.3	1294.6	1282.7	1273.2	1266.4
7.5°	1422.8	1424.8	1420.3	1413.1	1407.0	1396.2	1381.7	1367.6	1347.8	1329.7	1316.3
10°	1498.5	1501.3	1493.5	1483.1	1474.4	1461.7	1440.7	1419.3	1393.4	1368.3	1348.3
12.5°	1556.0	1562.8	1552.9	1551.5	1536.7	1519.2	1494.2	1483.5	1446.9	1412.0	1390.5
15°	1625.9	1625.5	1626.5	1617.8	1606.9	1604.1	1577.7	1549.1	1497.6	1477.1	1441.6
17.5°	1605.8	1612.7	1615.9	1615.8	1615.5	1613.8	1605.3	1587.2	1561.5	1528.2	1487.2
20°	1557.7	1566.8	1568.2	1578.7	1584.6	1592.3	1595.4	1590.5	1574.6	1546.8	1511.3
22.5°	1483.5	1485.9	1490.2	1506.5	1519.4	1538.7	1548.9	1565.8	1559.6	1546.0	1516.4
25°	1354.7	1350.1	1366.1	1374.2	1403.8	1434.8	1457.1	1481.7	1503.5	1516.7	1508.1
27.5°	1200.1	1193.3	1217.1	1238.9	1262.9	1296.5	1331.2	1372.3	1406.4	1449.1	1463.7
30°	1069.7	1073.8	1096.6	1119.8	1156.2	1203.5	1242.7	1287.8	1336.5	1384.3	1417.5
32.5°	929.2	944.9	959.3	994.9	1026.9	1079.8	1137.1	1193.5	1254.2	1308.5	1359.9
35°	737.4	755.6	775.7	801.6	846.7	899.0	955.0	1031.0	1113.9	1188.1	1249.1
37.5°	620.7	617.8	629.3	648.0	684.6	726.7	791.2	866.4	963.9	1051.1	1137.1
40°	550.8	548.9	557.1	574.4	602.3	633.2	689.6	755.6	846.2	952.7	1055.2
42.5°	502.7	503.8	508.4	520.6	539.6	565.1	607.3	663.5	746.5	846.8	956.8
45°	444.3	447.5	452.5	458.4	469.3	490.3	513.9	554.0	619.6	703.3	811.6
47.5°	402.3	402.3	407.4	412.6	419.1	430.9	450.2	475.3	521.6	589.8	682.9
50°	379.6	376.5	380.1	384.1	391.0	399.2	412.0	435.6	466.5	521.7	599.5
52.5°	352.0	352.0	355.3	356.9	363.0	371.1	382.8	399.2	427.2	470.3	534.3
55°	312.3	314.5	316.4	319.1	324.6	330.5	339.6	350.5	372.4	404.7	452.0
57.5°	274.9	275.6	277.5	282.7	286.1	291.6	300.2	310.1	324.4	348.3	383.9
60°	249.4	249.4	253.1	255.4	259.9	265.4	272.2	281.8	294.5	314.1	342.8
62.5°	226.1	225.8	227.2	231.0	234.4	239.5	246.4	254.5	266.4	283.8	307.5
65°	192.1	191.2	193.9	194.8	198.5	203.5	208.9	217.6	227.1	239.9	260.8
67.5°	159.3	160.4	161.8	163.6	165.6	170.9	174.5	180.7	188.7	199.3	213.5
70°	141.1	141.1	141.1	142.5	145.2	147.9	151.6	156.6	164.3	173.4	186.2
72.5°	120.7	122.2	123.6	122.8	126.3	127.9	132.2	135.1	142.5	148.3	159.6
75°	94.7	94.7	94.7	96.9	98.4	99.7	102.5	105.1	108.8	116.1	122.0
77.5°	70.6	70.4	70.9	71.4	72.9	74.5	75.3	77.8	81.2	84.5	89.6
80°	54.7	55.6	56.0	56.9	56.9	57.8	58.2	61.4	63.8	66.0	69.2
82.5°	42.3	42.4	42.5	42.7	43.1	43.6	44.8	45.8	46.6	48.5	51.0
85°	24.6	24.2	24.2	25.1	24.6	24.6	25.5	26.4	26.4	26.8	28.2
87.5°	11.5	11.5	11.9	11.4	11.4	11.7	11.6	11.1	11.4	11.7	11.9
90°	10.3	10.2	10.0	9.8	9.6	9.3	8.9	8.5	8.0	7.6	7.0
92.5°	10.3	10.2	10.1	10.0	9.9	9.7	9.5	9.3	9.1	8.8	8.5
95°	16.4	16.5	16.6	16.7	16.8	16.6	16.1	15.7	15.2	14.9	14.3
97.5°	21.8	21.8	21.7	21.6	21.5	21.2	21.0	20.6	20.2	19.9	18.5
100°	25.5	25.3	25.2	25.1	24.9	24.4	23.7	23.1	22.4	21.8	20.2
102.5°	27.4	27.1	26.9	26.7	26.4	25.9	25.0	24.1	23.2	22.3	34.4
105°	29.0	28.6	28.3	27.9	27.6	27.0	26.0	25.1	24.2	23.3	46.4
107.5°	29.8	29.4	29.2	28.8	28.4	28.7	29.7	30.7	31.6	32.5	60.3
110°	30.1	29.8	29.4	29.1	28.7	32.8	41.3	49.8	58.2	66.7	91.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	30.4	30.1	29.9	29.6	29.3	44.7	75.5	106.5	137.3	168.3	174.2
115°	31.2	37.4	43.4	49.6	55.6	78.3	117.5	156.8	195.9	235.1	233.0
117.5°	127.6	147.7	167.6	187.7	207.8	222.5	232.0	241.5	251.0	260.5	259.0
120°	232.5	243.9	255.4	266.8	278.2	283.5	282.4	281.4	280.4	279.4	277.9
122.5°	290.1	292.3	294.5	296.8	299.0	299.8	299.2	298.5	298.0	297.4	295.7
125°	325.8	325.7	325.4	325.1	324.9	324.4	323.9	323.2	322.6	322.1	320.5
127.5°	348.4	348.4	348.3	348.3	348.2	347.8	346.9	346.1	345.2	344.3	343.1
130°	362.5	362.6	362.7	362.7	362.8	362.4	361.4	360.5	359.5	358.6	357.8
132.5°	376.2	376.3	376.3	376.4	376.5	376.1	375.3	374.6	373.8	373.0	372.0
135°	396.0	396.2	396.4	396.5	396.6	396.4	395.5	394.7	393.8	393.0	392.2
137.5°	414.0	414.4	414.6	414.9	415.2	414.9	414.1	413.3	412.4	411.6	410.7
140°	425.3	425.8	426.1	426.6	427.0	426.9	426.1	425.3	424.5	423.8	422.8
142.5°	436.3	436.8	437.2	437.6	438.0	437.9	437.2	436.5	435.8	435.1	434.0
145°	451.7	452.1	452.5	452.9	453.3	453.3	452.6	452.1	451.5	450.8	449.4
147.5°	465.1	465.5	465.8	466.2	466.5	466.5	466.1	465.7	465.2	464.8	463.3
150°	473.4	473.8	474.2	474.7	475.1	475.0	474.5	474.0	473.5	473.0	471.6
152.5°	480.4	480.9	481.5	482.1	482.6	482.7	482.1	481.6	481.1	480.6	479.3
155°	490.2	490.8	491.5	492.1	492.8	492.9	492.4	492.0	491.4	490.9	489.9
157.5°	499.1	499.7	500.3	501.1	501.7	501.8	501.1	500.6	500.0	499.4	498.7
160°	504.3	504.8	505.4	506.0	506.6	506.7	506.1	505.6	505.2	504.6	504.1
162.5°	508.5	509.3	510.0	510.7	511.4	511.5	511.0	510.3	509.8	509.2	508.7
165°	514.9	515.5	516.1	516.7	517.3	517.3	516.7	516.1	515.5	514.9	514.7
167.5°	519.0	519.7	520.5	521.2	522.0	522.1	521.5	520.9	520.3	519.7	519.5
170°	521.4	522.2	522.9	523.7	524.4	524.5	524.0	523.3	522.7	522.2	522.0
172.5°	523.3	524.0	524.8	525.5	526.3	526.4	525.8	525.1	524.6	524.0	523.8
175°	524.9	525.7	526.6	527.4	528.2	528.3	527.7	527.2	526.6	525.9	525.8
177.5°	525.8	526.4	527.0	527.6	528.2	528.3	527.8	527.4	526.9	526.4	526.4
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1215.4	1212.5	1210.7	1204.1	1198.3	1192.5	1190.6	1191.3	1183.4	1175.7	1172.4
5°	1262.8	1253.7	1245.0	1232.7	1218.2	1202.2	1194.0	1187.6	1171.7	1154.4	1144.4
7.5°	1305.2	1292.2	1275.5	1252.3	1231.2	1206.1	1190.2	1176.1	1152.7	1128.4	1113.4
10°	1331.1	1313.2	1291.8	1263.6	1237.7	1207.2	1185.8	1164.4	1137.1	1108.0	1089.8
12.5°	1353.3	1329.3	1308.2	1272.0	1241.4	1203.2	1177.8	1147.6	1118.9	1084.3	1066.5
15°	1406.1	1362.0	1321.9	1280.9	1243.1	1189.9	1161.7	1121.1	1083.3	1040.6	1020.1
17.5°	1447.0	1397.4	1334.3	1282.2	1238.1	1179.2	1137.7	1089.2	1044.6	995.6	967.8
20°	1470.3	1413.4	1345.6	1283.7	1230.8	1163.5	1118.5	1068.8	1016.5	961.4	931.3
22.5°	1484.2	1424.3	1357.3	1278.2	1216.3	1150.8	1094.0	1039.6	986.6	927.2	895.6
25°	1488.5	1433.9	1362.9	1273.6	1198.1	1123.9	1055.6	1002.8	938.6	883.1	837.1
27.5°	1466.9	1427.7	1359.4	1265.1	1177.1	1090.3	1014.2	954.4	886.6	826.3	780.2
30°	1440.3	1417.5	1351.0	1256.3	1160.3	1067.0	983.2	915.4	848.0	787.0	739.7
32.5°	1399.1	1394.2	1335.8	1243.9	1142.5	1037.5	950.8	882.3	807.6	747.7	702.6
35°	1318.3	1340.2	1303.2	1216.3	1108.8	995.5	901.8	823.5	746.1	688.8	646.4
37.5°	1210.0	1264.2	1254.5	1175.8	1063.5	949.9	846.3	764.5	690.7	632.8	591.3
40°	1135.2	1204.4	1214.5	1144.9	1031.5	914.5	804.8	723.4	651.4	598.6	556.7
42.5°	1055.2	1136.0	1163.5	1107.7	996.5	877.4	767.7	683.2	612.1	560.7	523.6
45°	920.9	1027.9	1077.5	1045.6	938.2	816.2	703.3	617.7	553.0	504.8	476.2
47.5°	795.3	912.2	978.9	967.7	873.3	752.4	640.9	558.7	495.8	457.3	431.6
50°	706.5	826.6	907.2	910.9	826.6	706.9	594.9	517.5	459.8	423.8	402.9
52.5°	629.3	744.0	831.9	851.1	774.5	659.6	553.8	476.8	425.9	392.8	374.1
55°	528.5	625.4	722.8	758.4	696.9	587.6	489.8	422.0	374.2	351.4	335.0
57.5°	439.3	520.2	610.2	649.4	611.5	518.0	426.2	367.4	328.6	308.6	296.0
60°	392.4	456.1	536.2	583.1	550.4	467.1	386.9	330.9	299.1	281.3	269.5
62.5°	348.7	405.1	472.9	515.8	497.9	419.4	347.6	298.2	270.6	254.0	245.5
65°	287.7	332.3	384.7	424.3	412.4	352.8	294.1	251.7	229.9	216.7	209.8
67.5°	236.9	269.1	305.4	340.1	330.6	288.3	241.2	208.2	191.9	180.6	176.5
70°	204.8	229.4	261.7	289.5	281.8	247.2	209.8	181.6	167.6	157.9	153.8
72.5°	174.2	194.5	219.1	241.8	236.6	207.9	176.7	155.4	144.5	135.7	132.3
75°	131.5	147.0	162.0	177.1	175.7	153.4	135.2	118.8	110.1	103.3	101.9
77.5°	97.1	105.8	116.0	124.9	122.4	109.7	95.4	86.1	79.6	75.1	74.4
80°	74.2	79.2	86.5	92.8	89.7	84.2	72.9	66.0	61.4	56.9	55.1
82.5°	53.8	58.9	63.2	66.6	64.2	59.1	52.1	47.4	44.7	41.6	40.8
85°	28.2	30.9	32.8	33.7	32.8	29.6	26.4	24.6	22.3	21.0	20.5
87.5°	12.2	12.0	11.9	12.5	11.2	11.0	9.4	8.1	7.9	7.8	7.2
90°	6.2	5.6	4.9	4.1	3.2	2.2	1.3	0.4	1.3	2.2	3.2
92.5°	8.2	7.8	7.5	7.4	7.4	7.5	7.6	7.7	7.6	7.5	7.4
95°	13.6	13.1	12.5	13.6	16.4	19.2	21.9	24.8	21.9	19.2	16.4
97.5°	17.1	15.8	14.4	17.7	25.5	33.4	41.3	49.1	41.3	33.4	25.5
100°	18.8	17.4	16.0	21.0	32.6	44.2	55.8	67.5	55.8	44.2	32.6
102.5°	46.5	58.5	70.5	77.8	80.3	82.7	85.2	87.6	85.2	82.7	80.3
105°	69.5	92.6	115.7	126.0	123.5	120.9	118.4	115.8	118.4	120.9	123.5
107.5°	88.0	115.7	143.5	156.3	154.3	152.2	150.2	148.1	150.2	152.2	154.3
110°	115.7	140.1	164.6	175.9	174.2	172.4	170.6	168.8	170.6	172.4	174.2



TEST NUMBER: P331525-940

CATALOG NUMBER: S122DIW-S675D435U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	180.3	186.4	192.4	194.7	193.1	191.5	189.9	188.3	189.9	191.5	193.1
115°	231.0	228.8	226.7	224.9	223.5	222.0	220.6	219.2	220.6	222.0	223.5
117.5°	257.5	256.1	254.7	253.1	251.5	249.9	248.3	246.6	248.3	249.9	251.5
120°	276.3	274.8	273.3	271.9	270.6	269.3	268.0	266.8	268.0	269.3	270.6
122.5°	294.0	292.4	290.7	289.2	287.8	286.5	285.2	283.8	285.2	286.5	287.8
125°	318.9	317.3	315.6	314.2	313.2	312.1	310.9	309.9	310.9	312.1	313.2
127.5°	341.9	340.7	339.5	338.3	337.1	335.8	334.7	333.4	334.7	335.8	337.1
130°	356.8	355.9	354.9	353.7	352.4	351.1	349.7	348.4	349.7	351.1	352.4
132.5°	371.1	370.1	369.3	368.2	367.0	365.9	364.7	363.6	364.7	365.9	367.0
135°	391.5	390.7	389.9	388.9	387.4	386.1	384.8	383.4	384.8	386.1	387.4
137.5°	409.9	409.0	408.1	407.2	406.4	405.4	404.4	403.5	404.4	405.4	406.4
140°	422.0	421.1	420.1	419.3	418.6	417.9	417.2	416.6	417.2	417.9	418.6
142.5°	432.9	431.9	430.9	430.0	429.4	428.7	428.2	427.6	428.2	428.7	429.4
145°	448.0	446.6	445.1	444.4	444.5	444.6	444.7	444.8	444.7	444.6	444.5
147.5°	461.9	460.5	459.1	458.5	458.9	459.1	459.5	459.8	459.5	459.1	458.9
150°	470.3	469.0	467.5	467.2	467.8	468.3	469.0	469.6	469.0	468.3	467.8
152.5°	478.0	476.7	475.5	475.1	475.8	476.4	477.2	477.8	477.2	476.4	475.8
155°	488.8	487.9	486.9	486.7	487.5	488.2	489.0	489.7	489.0	488.2	487.5
157.5°	498.0	497.3	496.6	496.6	497.2	497.8	498.5	499.1	498.5	497.8	497.2
160°	503.6	503.1	502.6	502.6	503.1	503.6	504.1	504.6	504.1	503.6	503.1
162.5°	508.3	507.8	507.5	507.5	508.0	508.5	509.0	509.5	509.0	508.5	508.0
165°	514.4	514.2	513.9	514.0	514.5	515.1	515.6	516.0	515.6	515.1	514.5
167.5°	519.2	519.0	518.8	518.9	519.4	520.0	520.4	520.9	520.4	520.0	519.4
170°	521.8	521.7	521.5	521.7	522.2	522.6	523.2	523.7	523.2	522.6	522.2
172.5°	523.6	523.4	523.3	523.4	524.0	524.5	525.0	525.5	525.0	524.5	524.0
175°	525.7	525.5	525.3	525.5	526.1	526.6	527.3	527.9	527.3	526.6	526.1
177.5°	526.3	526.2	526.1	526.4	526.8	527.3	527.8	528.2	527.8	527.3	526.8
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331525-940

CATALOG NUMBER: S122DIW-S675D435U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1168.8	1166.6	1159.0	1154.9	1148.3	1142.2	1138.2	1140.1	1141.5	1140.8	1139.6
5°	1135.2	1126.6	1113.4	1102.1	1093.9	1078.8	1072.5	1069.3	1066.6	1063.4	1060.2
7.5°	1095.4	1081.7	1062.8	1046.6	1031.3	1012.6	1002.0	995.6	989.1	981.9	975.5
10°	1067.0	1047.8	1027.9	1005.0	986.9	970.0	955.0	945.0	935.9	927.3	920.9
12.5°	1037.1	1015.1	990.3	959.2	939.1	915.1	912.8	895.1	880.9	875.6	868.1
15°	989.6	958.7	927.3	890.4	874.4	852.6	838.9	825.3	813.0	804.3	802.1
17.5°	935.6	895.5	864.3	837.9	811.7	789.3	776.8	765.8	755.7	744.1	742.6
20°	894.5	859.9	825.7	802.5	775.7	752.9	737.4	726.5	717.8	711.1	705.1
22.5°	855.5	817.6	786.4	761.0	734.5	716.1	703.9	693.4	686.2	678.6	673.1
25°	793.0	763.4	729.2	700.5	678.7	666.9	656.8	647.7	643.2	638.2	631.9
27.5°	738.2	705.3	673.4	651.2	632.0	621.5	614.4	608.2	604.0	601.0	597.4
30°	699.6	666.4	641.4	619.6	603.6	593.2	588.6	585.0	580.0	578.1	576.3
32.5°	662.5	632.6	611.2	592.2	577.0	570.2	566.0	562.8	558.8	557.0	553.3
35°	609.9	585.0	564.0	553.5	541.3	535.3	532.2	527.5	524.0	522.1	521.7
37.5°	560.5	538.8	525.0	511.6	506.4	502.7	498.4	495.3	494.2	493.9	493.5
40°	528.5	510.8	498.5	487.5	485.3	479.7	476.2	473.4	473.4	473.9	473.4
42.5°	499.4	483.4	472.6	463.2	460.5	457.2	453.5	453.3	454.1	455.7	454.1
45°	455.2	443.8	436.0	431.5	426.5	423.3	422.8	424.3	424.7	425.2	426.5
47.5°	414.6	407.1	400.0	395.0	392.8	392.3	391.7	394.1	396.3	397.1	399.2
50°	390.6	381.9	376.0	372.8	371.0	370.1	371.0	373.7	375.5	377.8	379.2
52.5°	363.6	357.5	353.4	351.0	350.3	350.8	351.0	354.1	357.0	357.8	358.5
55°	326.4	321.8	320.9	316.8	318.6	318.2	320.5	322.3	325.0	327.7	328.2
57.5°	289.3	285.6	283.1	283.5	284.0	286.1	287.9	291.1	294.1	296.9	297.2
60°	264.5	262.6	261.3	261.3	262.2	264.9	267.2	270.4	272.2	274.0	275.4
62.5°	241.9	240.0	238.7	239.4	241.8	243.4	246.1	247.8	249.6	251.5	252.1
65°	206.2	205.3	206.7	207.6	208.0	210.3	213.5	214.8	216.7	217.6	220.8
67.5°	173.3	173.5	173.3	174.6	177.3	177.8	180.8	184.0	184.3	186.1	188.2
70°	151.1	152.0	152.9	153.8	156.1	157.0	159.3	160.7	162.5	163.9	165.2
72.5°	130.7	130.9	131.8	131.6	133.6	135.5	137.5	138.8	140.6	142.4	143.7
75°	100.6	100.6	101.5	101.9	104.2	106.6	106.0	107.0	108.8	110.6	111.6
77.5°	73.5	72.5	73.5	73.9	74.6	76.6	77.0	78.2	80.3	79.6	80.7
80°	56.0	54.7	56.0	56.4	56.4	58.8	58.8	59.7	61.0	59.7	61.0
82.5°	39.9	39.3	40.3	40.4	41.1	41.2	42.0	42.2	43.5	42.9	43.5
85°	20.1	19.6	20.1	19.6	20.1	20.5	20.5	20.1	20.1	21.0	19.6
87.5°	7.0	6.8	6.6	6.7	6.5	6.2	6.0	6.1	6.2	5.5	5.5
90°	4.1	4.9	5.6	6.2	7.0	7.6	8.0	8.5	8.9	9.3	9.6
92.5°	7.4	7.5	7.8	8.2	8.5	8.8	9.1	9.3	9.5	9.7	9.9
95°	13.6	12.5	13.1	13.6	14.3	14.9	15.2	15.7	16.1	16.6	16.8
97.5°	17.7	14.4	15.8	17.1	18.5	19.9	20.2	20.6	21.0	21.2	21.5
100°	21.0	16.0	17.4	18.8	20.2	21.8	22.4	23.1	23.7	24.4	24.9
102.5°	77.8	70.5	58.5	46.5	34.4	22.3	23.2	24.1	25.0	25.9	26.4
105°	126.0	115.7	92.6	69.5	46.4	23.3	24.2	25.1	26.0	27.0	27.6
107.5°	156.3	143.5	115.7	88.0	60.3	32.5	31.6	30.7	29.7	28.7	28.4
110°	175.9	164.6	140.1	115.7	91.1	66.7	58.2	49.8	41.3	32.8	28.7



TEST NUMBER: P331525-940

CATALOG NUMBER: S122DIW-S675D435U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	194.7	192.4	186.4	180.3	174.2	168.3	137.3	106.5	75.5	44.7	29.3
115°	224.9	226.7	228.8	231.0	233.0	235.1	195.9	156.8	117.5	78.3	55.6
117.5°	253.1	254.7	256.1	257.5	259.0	260.5	251.0	241.5	232.0	222.5	207.8
120°	271.9	273.3	274.8	276.3	277.9	279.4	280.4	281.4	282.4	283.5	278.2
122.5°	289.2	290.7	292.4	294.0	295.7	297.4	298.0	298.5	299.2	299.8	299.0
125°	314.2	315.6	317.3	318.9	320.5	322.1	322.6	323.2	323.9	324.4	324.9
127.5°	338.3	339.5	340.7	341.9	343.1	344.3	345.2	346.1	346.9	347.8	348.2
130°	353.7	354.9	355.9	356.8	357.8	358.6	359.5	360.5	361.4	362.4	362.8
132.5°	368.2	369.3	370.1	371.1	372.0	373.0	373.8	374.6	375.3	376.1	376.5
135°	388.9	389.9	390.7	391.5	392.2	393.0	393.8	394.7	395.5	396.4	396.6
137.5°	407.2	408.1	409.0	409.9	410.7	411.6	412.4	413.3	414.1	414.9	415.2
140°	419.3	420.1	421.1	422.0	422.8	423.8	424.5	425.3	426.1	426.9	427.0
142.5°	430.0	430.9	431.9	432.9	434.0	435.1	435.8	436.5	437.2	437.9	438.0
145°	444.4	445.1	446.6	448.0	449.4	450.8	451.5	452.1	452.6	453.3	453.3
147.5°	458.5	459.1	460.5	461.9	463.3	464.8	465.2	465.7	466.1	466.5	466.5
150°	467.2	467.5	469.0	470.3	471.6	473.0	473.5	474.0	474.5	475.0	475.1
152.5°	475.1	475.5	476.7	478.0	479.3	480.6	481.1	481.6	482.1	482.7	482.6
155°	486.7	486.9	487.9	488.8	489.9	490.9	491.4	492.0	492.4	492.9	492.8
157.5°	496.6	496.6	497.3	498.0	498.7	499.4	500.0	500.6	501.1	501.8	501.7
160°	502.6	502.6	503.1	503.6	504.1	504.6	505.2	505.6	506.1	506.7	506.6
162.5°	507.5	507.5	507.8	508.3	508.7	509.2	509.8	510.3	511.0	511.5	511.4
165°	514.0	513.9	514.2	514.4	514.7	514.9	515.5	516.1	516.7	517.3	517.3
167.5°	518.9	518.8	519.0	519.2	519.5	519.7	520.3	520.9	521.5	522.1	522.0
170°	521.7	521.5	521.7	521.8	522.0	522.2	522.7	523.3	524.0	524.5	524.4
172.5°	523.4	523.3	523.4	523.6	523.8	524.0	524.6	525.1	525.8	526.4	526.3
175°	525.5	525.3	525.5	525.7	525.8	525.9	526.6	527.2	527.7	528.3	528.2
177.5°	526.4	526.1	526.2	526.3	526.4	526.4	526.9	527.4	527.8	528.3	528.2
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331525-940

CATALOG NUMBER: S122DIW-S675D435U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1136.0	1135.2	1135.2	1132.0	1135.2	1135.2	1136.0	1139.6	1140.8	1141.5	1140.1
5°	1053.8	1052.4	1050.2	1052.4	1050.2	1052.4	1053.8	1060.2	1063.4	1066.6	1069.3
7.5°	972.5	967.1	966.3	960.8	966.3	967.1	972.5	975.5	981.9	989.1	995.6
10°	913.1	909.5	909.0	900.4	909.0	909.5	913.1	920.9	927.3	935.9	945.0
12.5°	868.0	859.3	860.9	856.0	860.9	859.3	868.0	868.1	875.6	880.9	895.1
15°	789.8	789.8	787.9	780.2	787.9	789.8	789.8	802.1	804.3	813.0	825.3
17.5°	733.6	732.7	728.3	730.5	728.3	732.7	733.6	742.6	744.1	755.7	765.8
20°	700.1	697.4	691.9	691.9	691.9	697.4	700.1	705.1	711.1	717.8	726.5
22.5°	668.4	668.2	662.5	664.2	662.5	668.2	668.4	673.1	678.6	686.2	693.4
25°	631.3	627.8	625.0	626.3	625.0	627.8	631.3	631.9	638.2	643.2	647.7
27.5°	596.2	594.2	594.1	590.3	594.1	594.2	596.2	597.4	601.0	604.0	608.2
30°	575.9	571.3	572.2	569.9	572.2	571.3	575.9	576.3	578.1	580.0	585.0
32.5°	552.5	550.9	550.0	548.0	550.0	550.9	552.5	553.3	557.0	558.8	562.8
35°	520.8	521.2	519.0	519.9	519.0	521.2	520.8	521.7	522.1	524.0	527.5
37.5°	493.0	494.5	493.4	493.7	493.4	494.5	493.0	493.5	493.9	494.2	495.3
40°	474.7	474.7	474.7	476.2	474.7	474.7	474.7	473.4	473.9	473.4	473.4
42.5°	457.3	456.6	455.8	455.8	455.8	456.6	457.3	454.1	455.7	454.1	453.3
45°	427.4	428.8	429.3	427.0	429.3	428.8	427.4	426.5	425.2	424.7	424.3
47.5°	400.4	400.6	400.4	402.4	400.4	400.6	400.4	399.2	397.1	396.3	394.1
50°	381.5	380.6	381.5	380.6	381.5	380.6	381.5	379.2	377.8	375.5	373.7
52.5°	361.4	361.6	361.1	360.9	361.1	361.6	361.4	358.5	357.8	357.0	354.1
55°	330.0	330.9	330.5	330.5	330.5	330.9	330.0	328.2	327.7	325.0	322.3
57.5°	297.6	298.4	299.0	296.9	299.0	298.4	297.6	297.2	296.9	294.1	291.1
60°	274.9	277.2	276.8	275.9	276.8	277.2	274.9	275.4	274.0	272.2	270.4
62.5°	254.2	255.0	254.9	254.8	254.9	255.0	254.2	252.1	251.5	249.6	247.8
65°	222.1	223.0	221.7	223.0	221.7	223.0	222.1	220.8	217.6	216.7	214.8
67.5°	187.6	187.9	189.0	189.6	189.0	187.9	187.6	188.2	186.1	184.3	184.0
70°	166.1	165.7	167.0	168.4	167.0	165.7	166.1	165.2	163.9	162.5	160.7
72.5°	143.6	144.5	144.1	145.1	144.1	144.5	143.6	143.7	142.4	140.6	138.8
75°	110.6	112.0	111.6	112.9	111.6	112.0	110.6	111.6	110.6	108.8	107.0
77.5°	79.9	80.1	79.9	80.7	79.9	80.1	79.9	80.7	79.6	80.3	78.2
80°	61.0	60.1	59.2	61.0	59.2	60.1	61.0	61.0	59.7	61.0	59.7
82.5°	42.4	43.0	42.1	42.1	42.1	43.0	42.4	43.5	42.9	43.5	42.2
85°	19.6	19.1	18.2	18.2	18.2	19.1	19.6	19.6	21.0	20.1	20.1
87.5°	5.6	5.3	5.3	5.0	5.3	5.3	5.6	5.5	5.5	6.2	6.1
90°	9.8	10.0	10.2	10.3	10.2	10.0	9.8	9.6	9.3	8.9	8.5
92.5°	10.0	10.1	10.2	10.3	10.2	10.1	10.0	9.9	9.7	9.5	9.3
95°	16.7	16.6	16.5	16.4	16.5	16.6	16.7	16.8	16.6	16.1	15.7
97.5°	21.6	21.7	21.8	21.8	21.8	21.7	21.6	21.5	21.2	21.0	20.6
100°	25.1	25.2	25.3	25.5	25.3	25.2	25.1	24.9	24.4	23.7	23.1
102.5°	26.7	26.9	27.1	27.4	27.1	26.9	26.7	26.4	25.9	25.0	24.1
105°	27.9	28.3	28.6	29.0	28.6	28.3	27.9	27.6	27.0	26.0	25.1
107.5°	28.8	29.2	29.4	29.8	29.4	29.2	28.8	28.4	28.7	29.7	30.7
110°	29.1	29.4	29.8	30.1	29.8	29.4	29.1	28.7	32.8	41.3	49.8



TEST NUMBER: P331525-940

CATALOG NUMBER: S122DIW-S675D435U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	29.6	29.9	30.1	30.4	30.1	29.9	29.6	29.3	44.7	75.5	106.5
115°	49.6	43.4	37.4	31.2	37.4	43.4	49.6	55.6	78.3	117.5	156.8
117.5°	187.7	167.6	147.7	127.6	147.7	167.6	187.7	207.8	222.5	232.0	241.5
120°	266.8	255.4	243.9	232.5	243.9	255.4	266.8	278.2	283.5	282.4	281.4
122.5°	296.8	294.5	292.3	290.1	292.3	294.5	296.8	299.0	299.8	299.2	298.5
125°	325.1	325.4	325.7	325.8	325.7	325.4	325.1	324.9	324.4	323.9	323.2
127.5°	348.3	348.3	348.4	348.4	348.4	348.3	348.3	348.2	347.8	346.9	346.1
130°	362.7	362.7	362.6	362.5	362.6	362.7	362.7	362.8	362.4	361.4	360.5
132.5°	376.4	376.3	376.3	376.2	376.3	376.3	376.4	376.5	376.1	375.3	374.6
135°	396.5	396.4	396.2	396.0	396.2	396.4	396.5	396.6	396.4	395.5	394.7
137.5°	414.9	414.6	414.4	414.0	414.4	414.6	414.9	415.2	414.9	414.1	413.3
140°	426.6	426.1	425.8	425.3	425.8	426.1	426.6	427.0	426.9	426.1	425.3
142.5°	437.6	437.2	436.8	436.3	436.8	437.2	437.6	438.0	437.9	437.2	436.5
145°	452.9	452.5	452.1	451.7	452.1	452.5	452.9	453.3	453.3	452.6	452.1
147.5°	466.2	465.8	465.5	465.1	465.5	465.8	466.2	466.5	466.5	466.1	465.7
150°	474.7	474.2	473.8	473.4	473.8	474.2	474.7	475.1	475.0	474.5	474.0
152.5°	482.1	481.5	480.9	480.4	480.9	481.5	482.1	482.6	482.7	482.1	481.6
155°	492.1	491.5	490.8	490.2	490.8	491.5	492.1	492.8	492.9	492.4	492.0
157.5°	501.1	500.3	499.7	499.1	499.7	500.3	501.1	501.7	501.8	501.1	500.6
160°	506.0	505.4	504.8	504.3	504.8	505.4	506.0	506.6	506.7	506.1	505.6
162.5°	510.7	510.0	509.3	508.5	509.3	510.0	510.7	511.4	511.5	511.0	510.3
165°	516.7	516.1	515.5	514.9	515.5	516.1	516.7	517.3	517.3	516.7	516.1
167.5°	521.2	520.5	519.7	519.0	519.7	520.5	521.2	522.0	522.1	521.5	520.9
170°	523.7	522.9	522.2	521.4	522.2	522.9	523.7	524.4	524.5	524.0	523.3
172.5°	525.5	524.8	524.0	523.3	524.0	524.8	525.5	526.3	526.4	525.8	525.1
175°	527.4	526.6	525.7	524.9	525.7	526.6	527.4	528.2	528.3	527.7	527.2
177.5°	527.6	527.0	526.4	525.8	526.4	527.0	527.6	528.2	528.3	527.8	527.4
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331525-940

CATALOG NUMBER: S122DIW-S675D435U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1138.2	1142.2	1148.3	1154.9	1159.0	1166.6	1168.8	1172.4	1175.7	1183.4	1191.3
5°	1072.5	1078.8	1093.9	1102.1	1113.4	1126.6	1135.2	1144.4	1154.4	1171.7	1187.6
7.5°	1002.0	1012.6	1031.3	1046.6	1062.8	1081.7	1095.4	1113.4	1128.4	1152.7	1176.1
10°	955.0	970.0	986.9	1005.0	1027.9	1047.8	1067.0	1089.8	1108.0	1137.1	1164.4
12.5°	912.8	915.1	939.1	959.2	990.3	1015.1	1037.1	1066.5	1084.3	1118.9	1147.6
15°	838.9	852.6	874.4	890.4	927.3	958.7	989.6	1020.1	1040.6	1083.3	1121.1
17.5°	776.8	789.3	811.7	837.9	864.3	895.5	935.6	967.8	995.6	1044.6	1089.2
20°	737.4	752.9	775.7	802.5	825.7	859.9	894.5	931.3	961.4	1016.5	1068.8
22.5°	703.9	716.1	734.5	761.0	786.4	817.6	855.5	895.6	927.2	986.6	1039.6
25°	656.8	666.9	678.7	700.5	729.2	763.4	793.0	837.1	883.1	938.6	1002.8
27.5°	614.4	621.5	632.0	651.2	673.4	705.3	738.2	780.2	826.3	886.6	954.4
30°	588.6	593.2	603.6	619.6	641.4	666.4	699.6	739.7	787.0	848.0	915.4
32.5°	566.0	570.2	577.0	592.2	611.2	632.6	662.5	702.6	747.7	807.6	882.3
35°	532.2	535.3	541.3	553.5	564.0	585.0	609.9	646.4	688.8	746.1	823.5
37.5°	498.4	502.7	506.4	511.6	525.0	538.8	560.5	591.3	632.8	690.7	764.5
40°	476.2	479.7	485.3	487.5	498.5	510.8	528.5	556.7	598.6	651.4	723.4
42.5°	453.5	457.2	460.5	463.2	472.6	483.4	499.4	523.6	560.7	612.1	683.2
45°	422.8	423.3	426.5	431.5	436.0	443.8	455.2	476.2	504.8	553.0	617.7
47.5°	391.7	392.3	392.8	395.0	400.0	407.1	414.6	431.6	457.3	495.8	558.7
50°	371.0	370.1	371.0	372.8	376.0	381.9	390.6	402.9	423.8	459.8	517.5
52.5°	351.0	350.8	350.3	351.0	353.4	357.5	363.6	374.1	392.8	425.9	476.8
55°	320.5	318.2	318.6	316.8	320.9	321.8	326.4	335.0	351.4	374.2	422.0
57.5°	287.9	286.1	284.0	283.5	283.1	285.6	289.3	296.0	308.6	328.6	367.4
60°	267.2	264.9	262.2	261.3	261.3	262.6	264.5	269.5	281.3	299.1	330.9
62.5°	246.1	243.4	241.8	239.4	238.7	240.0	241.9	245.5	254.0	270.6	298.2
65°	213.5	210.3	208.0	207.6	206.7	205.3	206.2	209.8	216.7	229.9	251.7
67.5°	180.8	177.8	177.3	174.6	173.3	173.5	173.3	176.5	180.6	191.9	208.2
70°	159.3	157.0	156.1	153.8	152.9	152.0	151.1	153.8	157.9	167.6	181.6
72.5°	137.5	135.5	133.6	131.6	131.8	130.9	130.7	132.3	135.7	144.5	155.4
75°	106.0	106.6	104.2	101.9	101.5	100.6	100.6	101.9	103.3	110.1	118.8
77.5°	77.0	76.6	74.6	73.9	73.5	72.5	73.5	74.4	75.1	79.6	86.1
80°	58.8	58.8	56.4	56.4	56.0	54.7	56.0	55.1	56.9	61.4	66.0
82.5°	42.0	41.2	41.1	40.4	40.3	39.3	39.9	40.8	41.6	44.7	47.4
85°	20.5	20.5	20.1	19.6	20.1	19.6	20.1	20.5	21.0	22.3	24.6
87.5°	6.0	6.2	6.5	6.7	6.6	6.8	7.0	7.2	7.8	7.9	8.1
90°	8.0	7.6	7.0	6.2	5.6	4.9	4.1	3.2	2.2	1.3	0.4
92.5°	9.1	8.8	8.5	8.2	7.8	7.5	7.4	7.4	7.5	7.6	7.7
95°	15.2	14.9	14.3	13.6	13.1	12.5	13.6	16.4	19.2	21.9	24.8
97.5°	20.2	19.9	18.5	17.1	15.8	14.4	17.7	25.5	33.4	41.3	49.1
100°	22.4	21.8	20.2	18.8	17.4	16.0	21.0	32.6	44.2	55.8	67.5
102.5°	23.2	22.3	34.4	46.5	58.5	70.5	77.8	80.3	82.7	85.2	87.6
105°	24.2	23.3	46.4	69.5	92.6	115.7	126.0	123.5	120.9	118.4	115.8
107.5°	31.6	32.5	60.3	88.0	115.7	143.5	156.3	154.3	152.2	150.2	148.1
110°	58.2	66.7	91.1	115.7	140.1	164.6	175.9	174.2	172.4	170.6	168.8



TEST NUMBER: P331525-940

CATALOG NUMBER: S122DIW-S675D435U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	137.3	168.3	174.2	180.3	186.4	192.4	194.7	193.1	191.5	189.9	188.3
115°	195.9	235.1	233.0	231.0	228.8	226.7	224.9	223.5	222.0	220.6	219.2
117.5°	251.0	260.5	259.0	257.5	256.1	254.7	253.1	251.5	249.9	248.3	246.6
120°	280.4	279.4	277.9	276.3	274.8	273.3	271.9	270.6	269.3	268.0	266.8
122.5°	298.0	297.4	295.7	294.0	292.4	290.7	289.2	287.8	286.5	285.2	283.8
125°	322.6	322.1	320.5	318.9	317.3	315.6	314.2	313.2	312.1	310.9	309.9
127.5°	345.2	344.3	343.1	341.9	340.7	339.5	338.3	337.1	335.8	334.7	333.4
130°	359.5	358.6	357.8	356.8	355.9	354.9	353.7	352.4	351.1	349.7	348.4
132.5°	373.8	373.0	372.0	371.1	370.1	369.3	368.2	367.0	365.9	364.7	363.6
135°	393.8	393.0	392.2	391.5	390.7	389.9	388.9	387.4	386.1	384.8	383.4
137.5°	412.4	411.6	410.7	409.9	409.0	408.1	407.2	406.4	405.4	404.4	403.5
140°	424.5	423.8	422.8	422.0	421.1	420.1	419.3	418.6	417.9	417.2	416.6
142.5°	435.8	435.1	434.0	432.9	431.9	430.9	430.0	429.4	428.7	428.2	427.6
145°	451.5	450.8	449.4	448.0	446.6	445.1	444.4	444.5	444.6	444.7	444.8
147.5°	465.2	464.8	463.3	461.9	460.5	459.1	458.5	458.9	459.1	459.5	459.8
150°	473.5	473.0	471.6	470.3	469.0	467.5	467.2	467.8	468.3	469.0	469.6
152.5°	481.1	480.6	479.3	478.0	476.7	475.5	475.1	475.8	476.4	477.2	477.8
155°	491.4	490.9	489.9	488.8	487.9	486.9	486.7	487.5	488.2	489.0	489.7
157.5°	500.0	499.4	498.7	498.0	497.3	496.6	496.6	497.2	497.8	498.5	499.1
160°	505.2	504.6	504.1	503.6	503.1	502.6	502.6	503.1	503.6	504.1	504.6
162.5°	509.8	509.2	508.7	508.3	507.8	507.5	507.5	508.0	508.5	509.0	509.5
165°	515.5	514.9	514.7	514.4	514.2	513.9	514.0	514.5	515.1	515.6	516.0
167.5°	520.3	519.7	519.5	519.2	519.0	518.8	518.9	519.4	520.0	520.4	520.9
170°	522.7	522.2	522.0	521.8	521.7	521.5	521.7	522.2	522.6	523.2	523.7
172.5°	524.6	524.0	523.8	523.6	523.4	523.3	523.4	524.0	524.5	525.0	525.5
175°	526.6	525.9	525.8	525.7	525.5	525.3	525.5	526.1	526.6	527.3	527.9
177.5°	526.9	526.4	526.4	526.3	526.2	526.1	526.4	526.8	527.3	527.8	528.2
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331525-940

CATALOG NUMBER: S122DIW-S675D435U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1190.6	1192.5	1198.3	1204.1	1210.7	1212.5	1215.4	1212.8	1212.1	1219.1	1224.1
5°	1194.0	1202.2	1218.2	1232.7	1245.0	1253.7	1262.8	1266.4	1273.2	1282.7	1294.6
7.5°	1190.2	1206.1	1231.2	1252.3	1275.5	1292.2	1305.2	1316.3	1329.7	1347.8	1367.6
10°	1185.8	1207.2	1237.7	1263.6	1291.8	1313.2	1331.1	1348.3	1368.3	1393.4	1419.3
12.5°	1177.8	1203.2	1241.4	1272.0	1308.2	1329.3	1353.3	1390.5	1412.0	1446.9	1483.5
15°	1161.7	1189.9	1243.1	1280.9	1321.9	1362.0	1406.1	1441.6	1477.1	1497.6	1549.1
17.5°	1137.7	1179.2	1238.1	1282.2	1334.3	1397.4	1447.0	1487.2	1528.2	1561.5	1587.2
20°	1118.5	1163.5	1230.8	1283.7	1345.6	1413.4	1470.3	1511.3	1546.8	1574.6	1590.5
22.5°	1094.0	1150.8	1216.3	1278.2	1357.3	1424.3	1484.2	1516.4	1546.0	1559.6	1565.8
25°	1055.6	1123.9	1198.1	1273.6	1362.9	1433.9	1488.5	1508.1	1516.7	1503.5	1481.7
27.5°	1014.2	1090.3	1177.1	1265.1	1359.4	1427.7	1466.9	1463.7	1449.1	1406.4	1372.3
30°	983.2	1067.0	1160.3	1256.3	1351.0	1417.5	1440.3	1417.5	1384.3	1336.5	1287.8
32.5°	950.8	1037.5	1142.5	1243.9	1335.8	1394.2	1399.1	1359.9	1308.5	1254.2	1193.5
35°	901.8	995.5	1108.8	1216.3	1303.2	1340.2	1318.3	1249.1	1188.1	1113.9	1031.0
37.5°	846.3	949.9	1063.5	1175.8	1254.5	1264.2	1210.0	1137.1	1051.1	963.9	866.4
40°	804.8	914.5	1031.5	1144.9	1214.5	1204.4	1135.2	1055.2	952.7	846.2	755.6
42.5°	767.7	877.4	996.5	1107.7	1163.5	1136.0	1055.2	956.8	846.8	746.5	663.5
45°	703.3	816.2	938.2	1045.6	1077.5	1027.9	920.9	811.6	703.3	619.6	554.0
47.5°	640.9	752.4	873.3	967.7	978.9	912.2	795.3	682.9	589.8	521.6	475.3
50°	594.9	706.9	826.6	910.9	907.2	826.6	706.5	599.5	521.7	466.5	435.6
52.5°	553.8	659.6	774.5	851.1	831.9	744.0	629.3	534.3	470.3	427.2	399.2
55°	489.8	587.6	696.9	758.4	722.8	625.4	528.5	452.0	404.7	372.4	350.5
57.5°	426.2	518.0	611.5	649.4	610.2	520.2	439.3	383.9	348.3	324.4	310.1
60°	386.9	467.1	550.4	583.1	536.2	456.1	392.4	342.8	314.1	294.5	281.8
62.5°	347.6	419.4	497.9	515.8	472.9	405.1	348.7	307.5	283.8	266.4	254.5
65°	294.1	352.8	412.4	424.3	384.7	332.3	287.7	260.8	239.9	227.1	217.6
67.5°	241.2	288.3	330.6	340.1	305.4	269.1	236.9	213.5	199.3	188.7	180.7
70°	209.8	247.2	281.8	289.5	261.7	229.4	204.8	186.2	173.4	164.3	156.6
72.5°	176.7	207.9	236.6	241.8	219.1	194.5	174.2	159.6	148.3	142.5	135.1
75°	135.2	153.4	175.7	177.1	162.0	147.0	131.5	122.0	116.1	108.8	105.1
77.5°	95.4	109.7	122.4	124.9	116.0	105.8	97.1	89.6	84.5	81.2	77.8
80°	72.9	84.2	89.7	92.8	86.5	79.2	74.2	69.2	66.0	63.8	61.4
82.5°	52.1	59.1	64.2	66.6	63.2	58.9	53.8	51.0	48.5	46.6	45.8
85°	26.4	29.6	32.8	33.7	32.8	30.9	28.2	28.2	26.8	26.4	26.4
87.5°	9.4	11.0	11.2	12.5	11.9	12.0	12.2	11.9	11.7	11.4	11.1
90°	1.3	2.2	3.2	4.1	4.9	5.6	6.2	7.0	7.6	8.0	8.5
92.5°	7.6	7.5	7.4	7.4	7.5	7.8	8.2	8.5	8.8	9.1	9.3
95°	21.9	19.2	16.4	13.6	12.5	13.1	13.6	14.3	14.9	15.2	15.7
97.5°	41.3	33.4	25.5	17.7	14.4	15.8	17.1	18.5	19.9	20.2	20.6
100°	55.8	44.2	32.6	21.0	16.0	17.4	18.8	20.2	21.8	22.4	23.1
102.5°	85.2	82.7	80.3	77.8	70.5	58.5	46.5	34.4	22.3	23.2	24.1
105°	118.4	120.9	123.5	126.0	115.7	92.6	69.5	46.4	23.3	24.2	25.1
107.5°	150.2	152.2	154.3	156.3	143.5	115.7	88.0	60.3	32.5	31.6	30.7
110°	170.6	172.4	174.2	175.9	164.6	140.1	115.7	91.1	66.7	58.2	49.8



TEST NUMBER: P331525-940

CATALOG NUMBER: S122DIW-S675D435U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	189.9	191.5	193.1	194.7	192.4	186.4	180.3	174.2	168.3	137.3	106.5
115°	220.6	222.0	223.5	224.9	226.7	228.8	231.0	233.0	235.1	195.9	156.8
117.5°	248.3	249.9	251.5	253.1	254.7	256.1	257.5	259.0	260.5	251.0	241.5
120°	268.0	269.3	270.6	271.9	273.3	274.8	276.3	277.9	279.4	280.4	281.4
122.5°	285.2	286.5	287.8	289.2	290.7	292.4	294.0	295.7	297.4	298.0	298.5
125°	310.9	312.1	313.2	314.2	315.6	317.3	318.9	320.5	322.1	322.6	323.2
127.5°	334.7	335.8	337.1	338.3	339.5	340.7	341.9	343.1	344.3	345.2	346.1
130°	349.7	351.1	352.4	353.7	354.9	355.9	356.8	357.8	358.6	359.5	360.5
132.5°	364.7	365.9	367.0	368.2	369.3	370.1	371.1	372.0	373.0	373.8	374.6
135°	384.8	386.1	387.4	388.9	389.9	390.7	391.5	392.2	393.0	393.8	394.7
137.5°	404.4	405.4	406.4	407.2	408.1	409.0	409.9	410.7	411.6	412.4	413.3
140°	417.2	417.9	418.6	419.3	420.1	421.1	422.0	422.8	423.8	424.5	425.3
142.5°	428.2	428.7	429.4	430.0	430.9	431.9	432.9	434.0	435.1	435.8	436.5
145°	444.7	444.6	444.5	444.4	445.1	446.6	448.0	449.4	450.8	451.5	452.1
147.5°	459.5	459.1	458.9	458.5	459.1	460.5	461.9	463.3	464.8	465.2	465.7
150°	469.0	468.3	467.8	467.2	467.5	469.0	470.3	471.6	473.0	473.5	474.0
152.5°	477.2	476.4	475.8	475.1	475.5	476.7	478.0	479.3	480.6	481.1	481.6
155°	489.0	488.2	487.5	486.7	486.9	487.9	488.8	489.9	490.9	491.4	492.0
157.5°	498.5	497.8	497.2	496.6	496.6	497.3	498.0	498.7	499.4	500.0	500.6
160°	504.1	503.6	503.1	502.6	502.6	503.1	503.6	504.1	504.6	505.2	505.6
162.5°	509.0	508.5	508.0	507.5	507.5	507.8	508.3	508.7	509.2	509.8	510.3
165°	515.6	515.1	514.5	514.0	513.9	514.2	514.4	514.7	514.9	515.5	516.1
167.5°	520.4	520.0	519.4	518.9	518.8	519.0	519.2	519.5	519.7	520.3	520.9
170°	523.2	522.6	522.2	521.7	521.5	521.7	521.8	522.0	522.2	522.7	523.3
172.5°	525.0	524.5	524.0	523.4	523.3	523.4	523.6	523.8	524.0	524.6	525.1
175°	527.3	526.6	526.1	525.5	525.3	525.5	525.7	525.8	525.9	526.6	527.2
177.5°	527.8	527.3	526.8	526.4	526.1	526.2	526.3	526.4	526.4	526.9	527.4
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1228.5	1233.6	1233.6	1234.3	1240.2	1239.4	1239.0
5°	1307.3	1315.1	1316.0	1324.2	1329.6	1327.8	1322.9
7.5°	1381.7	1396.2	1407.0	1413.1	1420.3	1424.8	1422.8
10°	1440.7	1461.7	1474.4	1483.1	1493.5	1501.3	1498.5
12.5°	1494.2	1519.2	1536.7	1551.5	1552.9	1562.8	1556.0
15°	1577.7	1604.1	1606.9	1617.8	1626.5	1625.5	1625.9
17.5°	1605.3	1613.8	1615.5	1615.8	1615.9	1612.7	1605.8
20°	1595.4	1592.3	1584.6	1578.7	1568.2	1566.8	1557.7
22.5°	1548.9	1538.7	1519.4	1506.5	1490.2	1485.9	1483.5
25°	1457.1	1434.8	1403.8	1374.2	1366.1	1350.1	1354.7
27.5°	1331.2	1296.5	1262.9	1238.9	1217.1	1193.3	1200.1
30°	1242.7	1203.5	1156.2	1119.8	1096.6	1073.8	1069.7
32.5°	1137.1	1079.8	1026.9	994.9	959.3	944.9	929.2
35°	955.0	899.0	846.7	801.6	775.7	755.6	737.4
37.5°	791.2	726.7	684.6	648.0	629.3	617.8	620.7
40°	689.6	633.2	602.3	574.4	557.1	548.9	550.8
42.5°	607.3	565.1	539.6	520.6	508.4	503.8	502.7
45°	513.9	490.3	469.3	458.4	452.5	447.5	444.3
47.5°	450.2	430.9	419.1	412.6	407.4	402.3	402.3
50°	412.0	399.2	391.0	384.1	380.1	376.5	379.6
52.5°	382.8	371.1	363.0	356.9	355.3	352.0	352.0
55°	339.6	330.5	324.6	319.1	316.4	314.5	312.3
57.5°	300.2	291.6	286.1	282.7	277.5	275.6	274.9
60°	272.2	265.4	259.9	255.4	253.1	249.4	249.4
62.5°	246.4	239.5	234.4	231.0	227.2	225.8	226.1
65°	208.9	203.5	198.5	194.8	193.9	191.2	192.1
67.5°	174.5	170.9	165.6	163.6	161.8	160.4	159.3
70°	151.6	147.9	145.2	142.5	141.1	141.1	141.1
72.5°	132.2	127.9	126.3	122.8	123.6	122.2	120.7
75°	102.5	99.7	98.4	96.9	94.7	94.7	94.7
77.5°	75.3	74.5	72.9	71.4	70.9	70.4	70.6
80°	58.2	57.8	56.9	56.9	56.0	55.6	54.7
82.5°	44.8	43.6	43.1	42.7	42.5	42.4	42.3
85°	25.5	24.6	24.6	25.1	24.2	24.2	24.6
87.5°	11.6	11.7	11.4	11.4	11.9	11.5	11.5
90°	8.9	9.3	9.6	9.8	10.0	10.2	10.3
92.5°	9.5	9.7	9.9	10.0	10.1	10.2	10.3
95°	16.1	16.6	16.8	16.7	16.6	16.5	16.4
97.5°	21.0	21.2	21.5	21.6	21.7	21.8	21.8
100°	23.7	24.4	24.9	25.1	25.2	25.3	25.5
102.5°	25.0	25.9	26.4	26.7	26.9	27.1	27.4
105°	26.0	27.0	27.6	27.9	28.3	28.6	29.0
107.5°	29.7	28.7	28.4	28.8	29.2	29.4	29.8
110°	41.3	32.8	28.7	29.1	29.4	29.8	30.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	75.5	44.7	29.3	29.6	29.9	30.1	30.4
115°	117.5	78.3	55.6	49.6	43.4	37.4	31.2
117.5°	232.0	222.5	207.8	187.7	167.6	147.7	127.6
120°	282.4	283.5	278.2	266.8	255.4	243.9	232.5
122.5°	299.2	299.8	299.0	296.8	294.5	292.3	290.1
125°	323.9	324.4	324.9	325.1	325.4	325.7	325.8
127.5°	346.9	347.8	348.2	348.3	348.3	348.4	348.4
130°	361.4	362.4	362.8	362.7	362.7	362.6	362.5
132.5°	375.3	376.1	376.5	376.4	376.3	376.3	376.2
135°	395.5	396.4	396.6	396.5	396.4	396.2	396.0
137.5°	414.1	414.9	415.2	414.9	414.6	414.4	414.0
140°	426.1	426.9	427.0	426.6	426.1	425.8	425.3
142.5°	437.2	437.9	438.0	437.6	437.2	436.8	436.3
145°	452.6	453.3	453.3	452.9	452.5	452.1	451.7
147.5°	466.1	466.5	466.5	466.2	465.8	465.5	465.1
150°	474.5	475.0	475.1	474.7	474.2	473.8	473.4
152.5°	482.1	482.7	482.6	482.1	481.5	480.9	480.4
155°	492.4	492.9	492.8	492.1	491.5	490.8	490.2
157.5°	501.1	501.8	501.7	501.1	500.3	499.7	499.1
160°	506.1	506.7	506.6	506.0	505.4	504.8	504.3
162.5°	511.0	511.5	511.4	510.7	510.0	509.3	508.5
165°	516.7	517.3	517.3	516.7	516.1	515.5	514.9
167.5°	521.5	522.1	522.0	521.2	520.5	519.7	519.0
170°	524.0	524.5	524.4	523.7	522.9	522.2	521.4
172.5°	525.8	526.4	526.3	525.5	524.8	524.0	523.3
175°	527.7	528.3	528.2	527.4	526.6	525.7	524.9
177.5°	527.8	528.3	528.2	527.6	527.0	526.4	525.8
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7

(END OF REPORT)